



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Naotaka AKIWA

Group Art Unit: 2834

Application No.: 10/014,522

Examiner: T. NGUYEN

Filed: December 14, 2001

Docket No.: 111477

For: STEPPING MOTOR, STEPPING MOTOR DEVICE AND DRIVING METHOD  
THEREOF

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

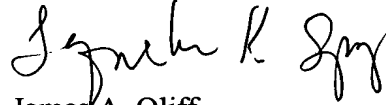
Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. The references were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.

- ☒ 3. An English-language Abstract of the non-English language reference is attached hereto.

Respectfully submitted,



James A. Oliff

Registration No. 27,075

Jaquelin K. Spong

Registration No. 52,241

JAO:JKS/jfl

Date: June 12, 2003

**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

<p><b>DEPOSIT ACCOUNT USE AUTHORIZATION</b> Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 111477		APPLICATION NO. 10/014,522	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Naotaka AKIWA			
				FILING DATE December 14, 2001		GROUP 2834	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
		4,516,064	05/07/85	OUDET ET AL.		
		4,907,897	03/13/90	SHIROTORI		
		5,386,161	01/31/95	SAKAMOTO		
		5,410,201	04/25/95	TANAKA ET AL.		
		5,864,192	01/26/99	NAGATE ET AL.		
		5,990,651	11/23/99	IWAZAWA ET AL.		
		6,164,833	12/26/00	KAI ET AL.		

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
		JP 56029449 (Abstract only)	03/24/81	JAPAN		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		

EXAMINER	DATE CONSIDERED
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Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date: May 14, 2003



European Patent  
Office

## PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

EP 01 81 1244

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 386 161 A (SAKAMOTO MASAFUMI) 31 January 1995 (1995-01-31)	1	H02K37/12
Y	* column 3, line 30 - line 63 * * column 5, line 14 - line 33; figures 3,4 *	2,5,6	H02P8/36
	---		H02P8/14
Y	US 4 907 897 A (SHIROTORI YOZO) 13 March 1990 (1990-03-13)	2	H02K11/00
	* column 2, line 21 - line 36; figure 2 *		H02K1/18
	---		H02K5/173
Y	US 5 864 192 A (ISHIGURO AKIYOSHI ET AL) 26 January 1999 (1999-01-26)	5,6	
A	* column 7, line 50 - column 9, line 23; figures 1-3 *	8-10	
	---		
A	US 6 164 833 A (KAI KAZUO ET AL) 26 December 2000 (2000-12-26)	1-4	
	* column 2, line 54 - column 3, line 3; figures 3-7 *		
	---		
A	US 5 410 201 A (SERIZAWA YUZI ET AL) 25 April 1995 (1995-04-25)	1-4	
	* column 1, line 40 - line 47; figure 4 *		
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INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p>			
Place of search		Date of completion of the search	Examiner
MUNICH		10 March 2003	Tangocci, A
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

